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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,706	11/05/2003	Linda Van Patten Benhase	TUC920030059US1	7080	
46263	7590 10/17/2006	EXAMINER			
SCULLY, SCOTT, MURPHY, & PRESSER 400 GARDEN CITY PL			CHEN, TE Y		
	ITY, NY 11530			. PAPER NUMBER	
	-	•	2161		

DATE MAILED: 10/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)		
Office Action Summary		10/701,70	10/701,706 BENHASE ET AL.		•	
		Examiner	,	Art Unit		
		Susan Y.	Chen	2161		
Period fo	The MAILING DATE of this communication Reply	ion appears on the	cover sheet with t	the correspondence ac	ddress	
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, the reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF TH CFR 1.136(a). In no evi ation. y period will apply and w by statute, cause the app	HIS COMMUNICAT ent, however, may a reply ill expire SIX (6) MONTHS dication to become ABAND	FION. be timely filed from the mailing date of this coned (35 U.S.C. § 133).	,	
Status						
1)⊠	Responsive to communication(s) filed or	n 07 August 2006	:			
	_					
	 This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is 					
-,	closed in accordance with the practice u	•		•		
Dispositi	on of Claims					
4)⊠	Claim(s) 1-20 is/are pending in the appli	cation.				
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
· _	Claim(s) <u>1-19</u> is/are rejected.					
	Claim(s) <u>20</u> is/are objected to.					
	Claim(s) are subject to restriction	and/or election re	equirement.			
Applicati	on Papers					
9)□	The specification is objected to by the Ex	raminer				
	The drawing(s) filed on is/are: a)[☐ objected to by t	the Examiner	•	
,_	Applicant may not request that any objection					
	Replacement drawing sheet(s) including the				FR 1.121(d).	
11)	The oath or declaration is objected to by	· · · · · · · · · · · · · · · · · · ·	- · · ·	•	, ,	
Priority u	nder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for f ☐ All b) ☐ Some *, c) ☐ None of:	oreign priority un	der 35 U.S.C. § 11	9(a)-(d) or (f).		
	1. Certified copies of the priority doc	uments have bee	n received.			
	2. Certified copies of the priority doc			ication No		
	3. Copies of the certified copies of the	e priority docume	ents have been rec	eived in this National	Stage	
	application from the International	Bureau (PCT Rul	e 17.2(a)).			
* S	ee the attached detailed Office action fo	r a list of the certi	fied copies not rec	eived.		
Attachmen	` '					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9		4) Interview Sumr	mary (PTO-413) ail Date		
	e of Dransperson's Patent Drawing Review (PTO-S nation Disclosure Statement(s) (PTO/SB/08)	740)	5) D Notice of Inform	mal Patent Application		
	No(s)/Mail Date		6) Other:			

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DETAILED ACTION

This office action is in response to the amendment filed on August 07, 2006.

Claims 1-20 are pending for examination, claims 1, 8 and 14 have been amended; claim 20 has been newly added.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-19, are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Publication No. 2004/0123,180 issued to Soejima et al. (hereinafter referred as Soejima), in view of U.S. Publication No. 2004/0088379 issued to Aoshima et al. (hereinafter referred as Aoshima).

Claim 1:

Soejima discloses method for pairing source and target volumns for the purpose of copying data from the source volume to the target volume [e.g., P2, Sections: 0034 – P. 3, 0040], comprising the steps:

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graphically depicting representations of storage resources in a single view [e.g., Fig. 22 and associated texts];

selecting a pair of said storage resources including identifying one of said pair as the source volume from which data are to be copied, and identifying the other of said pair as the target volume to which the data are to be copied. [e.g., P. 10, Sections: 0147-0150, Fig. 22 & P, 16, Sections: 0227-0242, Fig(s). 25-28 and associated texts]; and

after said pair have been selected implementing checks to determine if said selected pair satisfy predefined rules [e.g., the storage configuration modification processing at Fig(s). 18-19 and associated texts, Sections: 0162- 0172].

sending alert messages regarding the selected pair if the selected pair do not satisfy the predefined rules [e.g., Section: 0170].

Soejima does not specifically disclose that the selection of the pair of storage resources is on a single view.

However, Aoshima discloses the selection of the pair of storage resources is being performed in a single view [e.g., Abstract, Fig.(s) 4-9 and associated texts].

Soejima and Aoshima are both of the same endeavor for facilitating the copying of data from source volume to the target volume via graphic user interface, therefore, with the teachings of Soejima and Aoshima in front of him/her, an ordinary skilled person in the art at the time the invention was made would be motivated to modify Soejima's screen with the single view window as taught by Aoshima for making the selection of the pair of storage resources, because by doing so the system will be

upgraded with a more user friendly GUI to facilitate the copying of data from source volume to the target volume.

Claim 2:

Except the limitations recited in claim 1, the combined system of Soejima and Aoshima further discloses graphical depictions are side-by-side depictions in the single view of a logical configuration of the storage resources [e.g., Fig. 25 and associated texts].

Claim 4:

Except the limitations recited in claim 1, the combined system of Soejima and Aoshima discloses that the storage resources include a source subsystem having a multitude of source storage volumes, and a target subsystem having a multitude of target storage volumes; and each of the pairs consists of one of the source storage volumes and one of the target storage volumes [e.g., Soejima: the units: 28050, 28100, Fig. 28].

Claim 5:

Except the limitations recited in claim 4, the combined system of Soejima and Aoshima discloses that the selecting step includes the steps of: selecting a number of source storage volumes; and selecting a number of target storage volumes; and wherein one of the checks ensures that the number of selected source storage volumes

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is equal to the number of selected target storage volumes [e.g., Soejima: P. 2, Sections: 0034-0039 & Fig. 5].

Claim 6:

Except the limitations recited in claim 5, the combined system of Soejima and Aoshima discloses the following:

the step of selecting a number of source storage volumes includes the step of identifying a set of source storage volumes [e.g., Soejima: unit 19050, Fig. 19];

the step of selecting a number of target storage volumes includes the step of identifying a set of target storage volumes [e.g., Soejima: unit 19060, Fig. 19]; and

the implementing step includes the step of, if the number of source storage volumes in the set thereof is not equal to the number of target storage devices in the set thereof, then displaying a message for indicating that the sets have unequal numbers of storage devices [e.g., Soejima: units: 19070-19160, Fig. 19].

Claim 7:

Except the limitations recited in claim 1, the combined system of Soejima and Aoshima discloses the implementing step includes the step of also implementing error handling based on the predefined rules [e.g., Soejima: P. 11, Section: 0169-0170].

Claim 8:

This claim recites similar subject matters as claim 1 in form of system means, hence, is rejected along for the same reason.

Claim 9:

This claim recites similar subject matters as claim 2 in form of system means, hence, is rejected along for the same reason.

Claim 11:

This claim recites similar subject matters as claim 4 in form of system means, hence, is rejected along for the same reason.

Claim 12:

This claim recites similar subject matters as claim 5 in form of system means, hence, is rejected along for the same reason.

Claim 13:

This claim recites similar subject matters as claim 6 in form of system means, hence, is rejected along for the same reason.

Claim 14:

This claim recites similar subject matters as claim 1 in form of computer readable program storage medium, hence, is rejected along for the same reason.

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Claim 15:

This claim recites similar subject matters as claim 2 in form of computer readable program storage medium, hence, is rejected along for the same reason.

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Claim 17:

This claim recites similar subject matters as claim 4 in form of computer readable program storage medium, hence, is rejected along for the same reason.

Claim 18:

This claim recites similar subject matters as claim 5 in form of computer readable program storage medium, hence, is rejected along for the same reason.

Claim 19:

This claim recites similar subject matters as claim 6 in form of computer readable program storage medium, hence, is rejected along for the same reason.

Claim Rejections - 35 USC § 103 (continue)

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 10 and 16, are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Publication No. 2004/0123,180 issued to Soejima and U.S. Publication No. 2004/0088379 issued to Aoshima as applied to claims 2, 8 and 15 and further in view of U.S. Patent No. 5,065,347 issued to Pajak et al. (hereinafter referred as Pajak).

Claim 3:

Except the limitations recited in claim 2, the combined system of Soejima and Aoshima did not specifically discloses that graphical depictions are hierarchical trees.

However, Pajak disclose that graphical depictions are hierarchical trees [e.g., Abstract, col. 2, lines 63 – col. 3, lines 33].

Soejima, Aoshima and Pajak are all in the same field of endeavor to facilitate the data copying processing via geographical depictions, thus, it would have been obvious for an ordinary skilled person in the art at the time the invention was made to apply the well-known technique as taught by Pajak into Soejima's invention, because by doing so, as indicated by Pajak, the combined invention would be upgraded to provide working hierarchical tools to create, modify and access information for document creation and publications as well as support for structured analysis and design methods in a visually pleasing and easily accessible manner [e.g., Pajak: col. 2, lines 41-60].

Claim 10:

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This claim recites similar subject matters as claim 3 in form of system means, hence, is rejected along for the same reason.

Claim 16:

This claim recites similar subject matters as claim 3 in form of computer readable program storage medium, hence, is rejected along for the same reason.

Allowable Subject Matter

Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

This claim recites similar subject matters as claim 3 in form of system means, hence, is rejected along for the same reason.

Claim 16:

This claim recites similar subject matters as claim 3 in form of computer readable program storage medium, hence, is rejected along for the same reason.

Allowable Subject Matter

Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Claim 20 is allowable because the prior art on record or that encountered in searching for the invention, fails to disclose or suggest the features of instant invention - a graphic user interface for copying data from one source volume to another target volume, wherein the interface including a confirmation panel that allows an user to select multiple pairs of source and target volumes and swapping the target volume in one pair with the target volume in another pair within the confirmation panel for enhancing the data copying operation in a combination as claimed by applicant.

Conclusion

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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Points of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Y. Chen whose telephone number is 571-272-4016. The examiner can normally be reached on Monday - Friday from 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Gaffin can be reached on 571-272-4146. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan Y Chen Examiner Art Unit 2161

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Susan Y Chen Examiner Art Unit 2161

October 10, 2006

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